





# National Automotive Center



Emerging Technology Seminar Series: Dual Use Science & Technology

10 March 2000

Mr. Paul F. Skalny Associate Director, NAC

Tank-automotive & Armaments COMmand



Committed to Excellence

## **NAC Technical Focus Areas**



Automotive Vehicle Modernization Fuel Efficiency

Automotive Maintenance and Logistics Improvement

Systems

Automotive Manufacturing Innovation

Automotive Crew Safety Enhancement



## **NAC DUS&T Topics**



2001

Safety/Survivability

Intelligent Vehicles

Rebuild and End of Life Recycling

**Rapid Prototyping** 

Mfg Processes and Adv Material Technologies

Hybrid Electric and Advanced Diesels

Parasitic Loss Reduction

Alternative Fuels/Fuel Cells

Collaborative
Applications in Virtual
Environments



## FY97-99 DUS&T Summary



- FY99
   4 proposals awarded
- Cost shares:

\$ 8,534,000\* DOD Industry \$19,908,133 NAC \$ 8,569,000 \$37,011,133 Total

\*over 3 years

### **FY98**

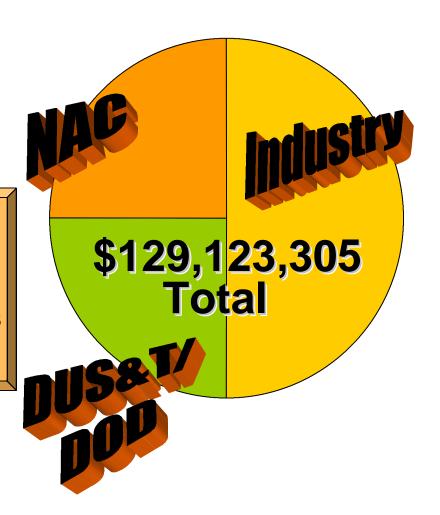
- 8 proposals awarded
- Cost shares:

DOD \$13,393,315 \$27,836,158 Industry NAC \$13,404,871 **Total** \$54.634.344

## FY97

- 14 proposals awarded
- Cost shares:

\$ 8,979,675 DOD Industry \$19,354,875 NAC \$ 9,143,278 **Total** \$37,477,828



Committed to Excellence



## **NAC Dual Use Initiative**



## Key Programs

Improved Materials and Powertrain Architectures for 21st Century Trucks (IMPACT)

Advanced Electric Wheel Drive Technology

Virtual Distributed Collaborative Environment

Hybrid-Electrical Family of Medium Tactical Vehicles

Next Generation Electrical Architecture (NGEA)

**Smart Battery Technology for Military** and Commercial Vehicle Operation

**Commercial Active Braking Systems** for Medium Duty Wheeled Vehicles